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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/891,235	06/27/2001	Takahiro Hosomi	053969-0128	1598	
22428 75	90 07/12/2005		EXAMINER		
FOLEY AND LARDNER			NGUYEN,	NGUYEN, DUNG X	
SUITE 500 3000 K STREET NW		ART UNIT	PAPER NUMBER		
WASHINGTON, DC 20007			2638		
			DATE MAILED: 07/12/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/891,235	HOSOMI, TAKAHIRO			
		Examiner	Art Unit			
		Dung X. Nguyen	2631			
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
THE - Exte after - If the - If NC - Failt Any	ORTENED STATUTORY PERIOD FOR REPLEMAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. It is period for reply specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing departed term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tin oly within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)[🛛	Responsive to communication(s) filed on <u>Feb</u>	ruary 03, 2005.				
2a)□	•	s action is non-final.				
3)□	_					
Disposit	ion of Claims					
 4) Claim(s) 1 - 24 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1 - 5, 9 - 16, and 20 - 22 is/are rejected. 7) Claim(s) 6 - 8, 17 - 19, 23 and 24 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Applicat	ion Papers					
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>27 June 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority	under 35 U.S.C. § 119					
a)	Acknowledgment is made of a claim for foreig All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea See the attached detailed Office action for a lis	nts have been received. Its have been received in Applicationity documents have been received in Application (PCT Rule 17.2(a)).	ion No ed in this National Stage			
Attachmen	• •					
1) Notice 2) Notice Notice	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D	(PTO-413) ate			
3) 🔲 Infor	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Pr No(s)/Mail Date		Patent Application (PTO-152)			

Response to Arguments

1. Applicant's arguments filed on February 03, 2005 have been fully considered and are persuasive. Therefore, the rejection(s) of the Office action filed on November 23, 2004 has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of the new found reference(s).

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 2, 5, 12, 13, and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Liew (US patent # 6,415,153 B1), and further in view of Chen (US patent # 6,330,462 B1)

Regarding claim 1, Liew discloses (figure 3) a spectrum communication system comprising means for controlling a transmission power of counterpart equipment upon a communication quality (column 1, lines 9-31).

Liew differs from the instant claimed invention that it does not show the steps of controlling bandwidth of counterpart equipment depending upon a communication quality.

However, Chen discloses the steps of controlling bandwidth of a counterpart equipment depending upon a communication quality (column 8, lines 41 - 53).

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Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to combine Liew and Chen as providing the requirements of the instant claimed invention for improving power control when changing the rate of the communication system (column 3, lines 47 - 52 of Chen).

Regarding claim 2, as followed by the limitations analyzed in claim 1, Liew further discloses that the communication quality is expressed by a reception bit error ratio (column 1, lines 57-61).

Regarding claim 5, as followed by the limitations analyzed as claim 1, Liew and Chen differ from the instant claimed invention that the communication quality is not degraded below a predetermined level and the transmission power is not maximum, the transmission power is lower.

However, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to recognize and implement Liew and Chen to provide the requirements of the instant claimed invention for controlling the transmission power being well appropriated.

Regarding claim 12, the limitations are analyzed in the same manner set forth as claim 1.

Regarding claim 13, the limitations are analyzed in the same manner set forth as claim 2

Regarding claim 16, the limitations are analyzed in the same manner set forth as claim 5

3. Claims 3, 4, 14, and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Liew (US patent # 6,415,153 B1), of Chen (US patent # 6,330,462 B1), and further in view of Japanese patent # JP 6046033 A submitted by applicant.

Regarding claim 3, as followed by the limitations analyzed in claim 1, Liew and Chen differ from the instant claimed invention that they do not show wherein the communication quality is degraded below a predetermined level, the control means varies a transmission band to a wider band when vacant band is present in a wider band than a currently used frequency band.

However, Japanese patent # JP 6046033 A submitted by applicant discloses that wherein the communication quality is degrade below a predetermined level, the control means varies a transmission band to a wider band when vacant band is present in a wider band than a currently used frequency band (page 1, line 18 to page 2, line 21 of the specification and translated abstract).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to combine Liew and Japanese patent # JP 6046033 A submitted by applicant as providing the requirements of the instant claimed invention for controlling the communication quality being well appropriated.

Regarding claim 4, as followed by the limitations analyzed in claim 1, Liew differs from the instant claimed invention that it does not show wherein the communication quality is degraded below a predetermined level, the control means varies a transmission band to a wider band when vacant band is present in a wider band than a currently used frequency band.

However, Japanese patent # JP 6046033 A submitted by applicant discloses that wherein the communication quality is degrade below a predetermined level, the control means increases transmission band to a wider band when vacant band is not present in a wider band than a currently used frequency band (page 1, line 18 to page 2, line 21 of the specification and translated abstract, because the control means varies a transmission band when vacant band is not present in a wider band than a currently used frequency band then Japanese patent # JP 6046033 A submitted by applicant does not need make the statement).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to combine Liew, Chen, and Japanese patent # JP 6046033 A submitted by applicant as providing the requirements of the instant claimed invention for controlling the communication quality being well appropriated.

Regarding claim 14, the limitations are analyzed in the same manner set forth as claim 3.

Regarding claim 15, the limitations are analyzed in the same manner set forth as claim 4.

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9. Claims 9 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Liew (US patent # 6,415,153 B1), Chen (US patent # 6,330,462 B1), and further in view of Sun et al. (US patent # 6,510,147 B1).

Regarding claim 9, as followed by the limitations analyzed in claim 1, Liew and Chen differ from the instant claimed invention that it does not show that wherein the control means varies the transmission bandwidth by varying a chip rate.

However, Sun et al. discloses that wherein the control means varies the transmission bandwidth by varying a chip rate (column 1, line 52 to column 2, line 26).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to combine Liew, Chen, and Sun et al. as providing the requirements of the instant claimed invention varying a chip rate for adapting transmitting narrow-band signals to transmitting wideband signals (column 1, lines 13 - 17 of Sun et al.).

Regarding claim 20, as followed by the limitations analyzed in claim 12, the limitations are analyzed in the same manner set forth as claim 9.

10. Claims 10 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Liew (US patent # 6,415,153 B1), Chen (US patent # 6,330,462 B1), and further in view of Lee et al. (US patent application # 2003/0086478 A1).

Regarding claim 10, as followed by the limitations analyzed in claim 1, Edwards differs from the instant claimed invention that it does not show that wherein the control means varies the transmission bandwidth by varying a data rate.

However, Lee et al. discloses that wherein the control means varies the transmission bandwidth by varying a data rate (page 2, first column, paragraph # 15 and page 3, second column 1, line 52 to column 2, lines 10 - 17).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to combine Liew, Chen, and Lee et al. as providing the requirements of the instant claimed invention for improving user connectivity as data can be transmitted over existing band-limited links (page 1, paragraph 2 of Lee et al.)

Regarding claim 21, as followed by the limitations analyzed in claim 12, the limitations are analyzed in the same manner set forth as claim 10.

11. Claims 11 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Liew (US patent # 6,415,153 B1), Chen (US patent # 6,330,462 B1), and further in view of Bishop et al. (US patent # 6,377,782 B1).

Regarding claim 11, as followed by the limitations analyzed in claim 1, Liew and Chen differ from the instant claimed invention that they do not show that wherein the control means varies the transmission bandwidth by varying a bit number of an error correction code.

However, Bishop et al. discloses that wherein the control means varies the transmission bandwidth by varying a bit number of an error correction code (figure 7 and its description from column 15, line 13 to column 16, line 38 and column 17, lines 15 - 46).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to combine Liew, Chen, and Bishop et al. as providing the requirements of the instant claimed invention for improving the transmission and reception of data via a linear broadband network (column 1, lines 26 – 28 of Bishop et al.)

Regarding claim 22, as followed by the limitations analyzed in claim 12, the limitations are analyzed in the same manner set forth as claim 11.

Allowable Subject Matter

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12. Claims 6 - 8, 17 - 19, 23, and 24 are objected to as being dependent upon a rejected

base claim, but would be allowable if rewritten in independent form including all of the

limitations of the base claim and any intervening claims.

Conclusion

13. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

Shelton et al. (US patent application publication # 2001/0011954 A1) discloses a method

and its corresponding apparatus for public area locator system.

Edwards et al. (US patent # 6,870,816 B1) discloses a method and its corresponding

apparatus for self-organizing network with decision engine.

Anderson et al. (US patent # 6,507,574 B1) discloses an adaptive power control in a

mobile radio communication system.

Contact Information

14. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Dung X. Nguyen whose telephone number is (571) 272-3010.

The examiner can normally be reached on Monday through Friday from 8:00 AM to 17:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Mr. Vanderpuye Kenneth N. can be reached on (571) 272-3078. The fax phone

numbers for this group is (571) 273-3021.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (571) 272-2600.

DXN

June 28, 2005

KENNETH VANDERPUYI PRIMARY EXAMINER